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TI Extrusion of fiber-reinforced inorganic products
IN Sanuki, Ikuo
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SO Jpn. Kokai Tokkyo Koho, 5 pp.
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CC 58-4 (Cement, Concrete, and Related Building Materials)
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CLASS

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	ICS	B28B003-20; C04B016-02; C04B016-06
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	ECLA	C04B020/10F4; C04B028/02

AB In asbestos-free compns. containing cement, siliceous material, fiber, lightwt. aggregate, and extruding aids, SiO2 fume and sand (fineness ≥8000 cm2/g) in weight ratio (15-25):(85-75) as siliceous material, synthetic fibers ≥0.05% (vs. weight of composition) and cellulose pulp coated with fine SiO2 powder 5-7% (as fibers), and microballoons 6-10 volume% (vs. composition) as lightwt. aggregate and water-reducing agent 0.5-1.5 weight% (vs. cement and siliceous material) are used. The resulting compns. are kneaded, extruded , steam-cured, and autoclaved at steam pressures ≥4 kg/cm2 to give the title products. A slurry prepared from cement 50, SiO2 fume 6, sand (fineness 8000 cm2/g) 34, pulp coated with SiO2 powder (fineness 10,000 cm2/g) 5, sand 5, polynosic rayon 0.1, microspheres of poly(vinylidene chloride) resin 10, Me cellulose 1, and superplasticizer 1 weight parts, under addition of water, was extruded at 18-25 kg/cm2, steam-cured for 12 h, and autoclaved at 6 kg/cm2 for 8 h to give explosion-resistant boards having bending strength 251 kg/cm2.
ST extrusion fiber cement explosion resi